

FALDIC-W Series • Wide Range



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Simple & Smart

Servo system for evolving machines



The FALDIC-W – a brand new basic model of the FALDIC series now uses a RoHS compatible environmentally friendly servo system. Additionally, the range of application has increased with the new addition of 1.8 kW and 2.9 kW rated output. The FALDIC series keeps evolving to meet all market requirements.

While pursuing the "advanced functions and sophisticated features required for servo systems", the FALDIC-W "improves usability" with its easy tuning function etc., and realizes "environmental friendliness" by being RoHS compatible.

The 3-motor lineup with different rated motor speeds meets a "wide range of applications".







Wide Range

Test operation function

0.05 kW 0.75 kW 0.85 kW 1.3 kW 0 1 kW 0 2 kW 0 4 kW 0.5 kW 1 kW 1.5 kW 1 8 kW 2 kW 2 9 kW **Low Inertia Series (GYS Motor)** Rated speed: 3000 r/min **Middle Inertia Series (GYG Motor)** Rated speed: 2000 r/min **Middle Inertia Series (GYG Motor)** Rated speed: 1500 r/min **Vibration Suppressing Control** Function equipped as standard Features Suppresses mechanical vibration to the limit. Two RS-485 ports as standard Realizes the integral control of parameters (Maximum 31-axis connection). **Easy tuning IP67 (Servomotor)** Simple optimum tuning between Water and dust proof the machine and servomotor servomotor **RoHS** compatible Environmentally friendly servo system Monitor output function High-resolution encoder Side-by-side installation Servo analysis function Globally compatible

Control power back-up function

Low Inertia Series (GYS Motor)

Rated speed: 3000 r/min

Hateu specu.	000 .7.		
Input power supply	Rated output	Motor type (standard type)	Amplifier type
	0.05 kW	GYS500DC2 - T2A	RYC500D3 - VVT2
Single-phase	0.1 kW	GYS101DC2 - T2A	RYC101D3 - VVT2
200 to 230V	0.2 kW	GYS201DC2 - T2A	RYC201D3 - VVT2
	0.4 kW	GYS401DC2 - T2A	RYC401D3 - VVT2
Single-phase or 3-phase 200 to 230V	0.75 kW	GYS751DC2 - T2A	RYC751D3 - VVT2



3000 r/min type

Middle Inertia Series (GYG Motor)

Rated speed: 2000 r/min

Input power supply	Rated output	Motor type (standard type)	Amplifier type
Single-phase or 3-phase	0.5 kW	GYG501CC2 - T2E	RYC501C3 - VVT2
200 to 230V	0.75 kW	GYG751CC2 - T2E	RYC751C3 - VVT2
	1 kW	GYG102CC2 - T2E	RYC102C3 - VVT2
3-phase 200 to 230V	1.5 kW	GYG152CC2 - T2E	RYC152C3 - VVT2
	2 kW	GYG202CC2 - T2E	RYC202C3 - VVT2



2000 r/min type

Middle Inertia Series (GYG Motor)

Rated speed: 1500 r/min

Input power supply	Rated output	Motor type (standard type)	Amplifier type	
Single-phase or 3-phase 200 to 230V	0.5 kW	GYG501BC2 - T2E	RYC501B3 - VVT2	
	0.85 kW	GYG851BC2 - T2E	RYC851B3 - VVT2	
3-phase	1.3 kW	GYG132BC2 - T2E	RYC132B3 - VVT2	
200 to 230V	1.8 kW	GYG182BC2 - T2G	RYC182B3 - VVT2	N
	2.9 kW	GYG292BC2 - T2G	RYC292B3 - VVT2	N



1500 r/min type

Other Features



High-resolution encoder

The FALDIC-W is installed with a high-resolution 131072 pulse encoder. Higher resolutions reduce rotation fluctuation and achieve smooth machine motion at low speeds.



Servo analysis function

This is a tool installed in the loader to be equipped with a personal computer, which analyzes the "resonance frequencies" inherent in each machine to make effective use of the "vibration suppressing control function," the "Notch Filter," etc.



Test operation function

Continuous reciprocation is supported in addition to JOG operation in a single direction. You can easily check the performance of the machine by a test operation and the effective torque by rough actual operation before preparing the host controller.

Feature 1



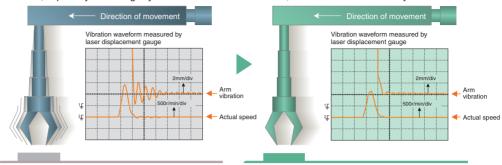
Vibration
Suppressing
Control Function

Suppresses mechanical vibration to the limit.

Our original vibration suppressing control function (patent pending)

A "Vibration Suppressing Control Function" is introduced, which is effective in controlling robot arm end vibration.

Fuji's original "Vibration Suppressing Control Function" is installed as a standard feature. It effectively reduces vibration, especially for low-rigidity units such as a robot arm end, and minimizes machine cycle time.



Without vibration suppressing control function

With vibration suppressing control function

Feature 2



Integral control of parameters

Realizes the integral control of parameters.

■ Two RS-485 ports as standard

RS-485 links the host controller to each servo amplifier, enabling the integral control of the servo amplifier parameters by the host controller.

Image of system configuration



Host controller Servo amplifiers (Maximum 31-axis connection)



Parameter management screen

Feature 3



Easy tuning

Feature 4



IP67 (Servomotor)

Feature 5



RoHS compatible

Simple optimum tuning between the machine and servomotor

The servo amplifier automatically performs auto-tuning on the machine and servomotor to the optimum setting by setting the simple operation pattern in the parameters. Since tuning can be done prior to preparing host devices such as positioning adjustment of the controller, the length of the operation can be decreased.

Water and dust proof servomotor

Since the servomotor complies with IP67*, it can be used in environments where it is exposed to water and dust.

*Excluding the shaft sealing and connector of the GYS motors and the axis through portion of the GYG motors. The GYG motor 1.8 kW and 2.9 kW comply with IP65.

Environmentally friendly servo system

The Servo system complies with "The Restriction of Hazardous Substances (RoHS) Directive of the EU". It is an environmentally friendly servo system, which restricts 6 toxic substances.

<6 Toxic Substances>

Lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyl, polybrominated diphenyl ether



Monitor output function

An analog monitor output function is equipped on the front of the servo amplifier. Connect a special connector to it to observe signals. Two signals can be observed from the return speed, torque command, positional deviation, etc.



Side-by-side installation

Servo amplifiers can be installed side by side, which saves space required to install them in the



Globally compatible

The FALDIC-W is compatible with "CE marking" and "UL/cUL" standards

The sequence I/O signals are also sink/source shared.



Control power back-up function

A control power input for the servo amplifier is installed separately from the main power input. Even if the system cuts off the main power supply in emergencies, information on the alarm and encoder can be maintained.

Operation and Indication

■ Personal computer loader

The loader software for personal computers for the FALDIC-W Series can be downloaded from our website. http://www.fujielectric.co.jp/fcs/

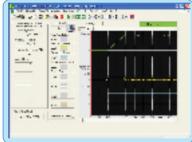


Section Real-time trace

Menu screen

You can set the following with the personal computer loader:

- : Speeds and torque curves can be continuously obtained. (1) Real-time trace
- : Shorter, more detailed curves than real-time trace can be obtained.
- (2) Historical trace (3) Monitor 2 : I/O can be checked and alarm history and the system configuration can be monitored.
- (4) Parameter edit : Parameters can be edited, transferred, compared, and initialized.
- (5) Communication setting: Set the conditions for communication between the servo amplifier and the personal computer.
- (6) Easy tuning The servomotor is automatically reciprocated with easy settings to adjust it
- to the auto tuning gain suitable for the machine system. (7) Servo analysis : Inspects the resonance and antiresonance points of the machine system.
 - The effect of the Notch Filter can also be checked.



Historical trace

■ Keypad

The keypad allows you to use the similar functions as with the personal computer loader.



*The keypad does not display trace but displays a value.

Mode change key

- Changes the mode (MODE).
- Cancels the mode (ESC).

Shift/Enter key

- Shifts the data setting digit to the right (SHIFT)
- · Determines the mode or the value (ENT).



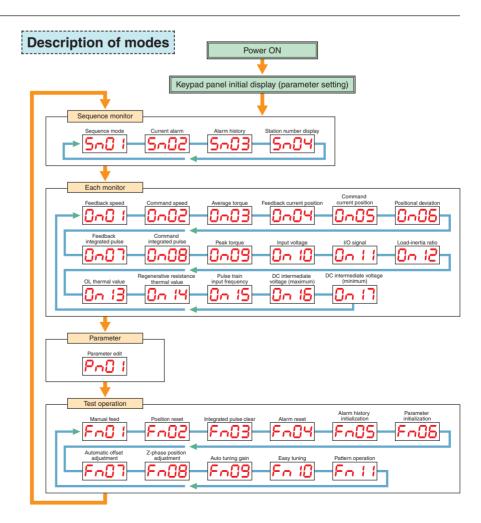
Sub-mode selection key (UP)

Increases the value (+1).



Sub-mode selection key (DOWN)

• Decreases the value (-1).

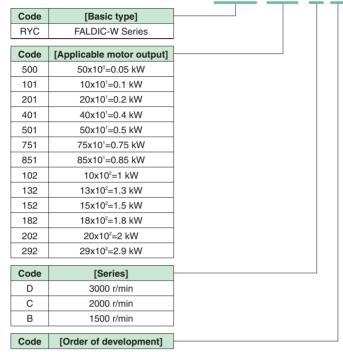




Explanation of Model Codes

Servo amplifier

RYC 500 D 3 - V V T 2



Code	[Input voltage]
2	AC 200 V series
Code	[Encoder]
Т	17-bit INC
Code	[Upper interface]
Code V	[Upper interface] DI/DO (speed)
Code V	
Code V	

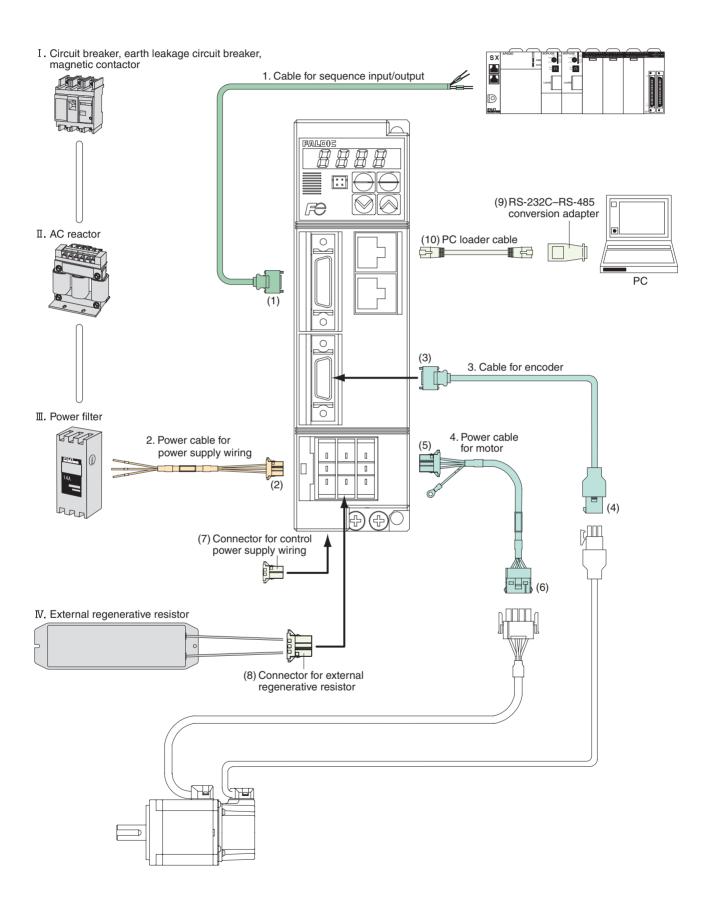
Pulse train/speed control

Servomotor

$\underline{\mathsf{GYS}}\ \underline{\mathsf{500}}\ \underline{\mathsf{D}}\ \underline{\mathsf{C}}\ \underline{\mathsf{2}}\ -\ \underline{\mathsf{T}}\ \underline{\mathsf{2}}\ \underline{\mathsf{A}}\ -\ \underline{\mathsf{B}}$

	[Basic type]
	Low inertia type
Middle i	nertia type
[Date d	autmut1
	ited output]
	50x10°=0.05 kW
	10x10¹=0.1 kW
	0x10 ¹ =0.2 kW
40x10 ¹	=0.4 kW
50	0x10 ¹ =0.5 kW
	75x10 ¹ =0.75 kW
	85x10 ¹ =0.85 kW
	10x10 ² =1 kW
	13x10 ² =1.3 kW
	15x10 ² =1.5 kW
18x1	0²=1.8 kW
	(10²=2 kW
	0²=2.9 kW
	23X10 =2.3 KVV
	[Rated speed]
	3000 r/min series
Ī	2000 r/min series
	1500 r/min series
Ī	Plantalla (1
4	[Installation method]
	Flange mounting
	[Order of development]

Guide to System Configuration



Guide to System Configuration

Connector-provided cable correspondence table

Mot	or series	Rated speed	Brake	Rated output	Between host and amplifier	Between power supply and amplifier	Between amplifier and motor									
WICE	or series	nateu speeu	Diake	Tiuteu output	1. Cable for sequence input/output	2. Power cable for power supply wiring	3. Cable for encoder	4. Power cable for motor								
Low inertia	GYS motor	3000 r/min	Not provided	0.05 to 0.75 kW			WSC-P06P05-D (5 m) WSC-P06P10-D (10 m)	WSC-M04P05-B (5 m) WSC-M04P10-B (10 m) WSC-M04P20-B (20 m)								
Low i			Provided	0.05 to 0.75 kW		WSC-S03P03-B (3 m)	WSC-P06P20-D (20 m)	WSC-M06P05-B (5 m) WSC-M06P10-B (10 m) WSC-M06P20-B (20 m)								
	GYG motor	2000 r/min	Not provided	0.5 to 1 kW				WSC-M04P05-WD (5 m) (*2) WSC-M04P10-WD (10 m) WSC-M04P20-WD (20 m)								
				1.5 to 2 kW		*Terminal block wiring		- (*1)								
											Provided	0.5 to 1 kW	WSC-D26P03 (3 m)	WSC-S03P03-B (3 m)		WSC-M04P05-WD (5 m) (*3) WSC-M04P10-WD (10 m) WSC-M04P20-WD (20 m)
				1.5 to 2 kW	VV00-D201 00 (0 III)	*Terminal block wiring		- (*1)								
Middle inertia	GYG motor	1500 r/min	Not provided	0.5 to 0.85 kW		WSC-S03P03-B (3 m)	WSC-P06P05-CD (5 m) WSC-P06P10-CD (10 m) WSC-P06P20-CD (20 m)	WSC-M04P05-WD (5 m) (*2) WSC-M04P10-WD (10 m) WSC-M04P20-WD (20 m)								
Μ								1.3 kW 1.8 kW 2.9 kW		*Terminal block wiring	WSC-F00F20-CD (20111)	- (*1) - (*4)				
			Provided	0.5 to 0.85 kW		WSC-S03P03-B (3 m)		WSC-M04P05-WD (5 m) (*3) WSC-M04P10-WD (10 m) WSC-M04P20-WD (20 m)								
				1.3 kW 1.8 kW 2.9 kW		*Terminal block wiring		- (*1) - (*4)								

^{*1:} The customer is requested to make this cable with a specified connector. (Specified connector: WSK-M04P-CA for motors without a brake; WSK-M06P-CA for motors with a brake)

*2: Use the cable together with the connector for motor power supply wiring WSK-M06P-CA. (The customer is requested to make a cable for brakes.)

*4: The customer is requested to make this cable with a specified connector. (Specified connector: WSK-M09P-CC for both motors without brakes and motors with brakes)

Connector correspondence table

*When the customer makes a cable, use any of the connectors shown in this table.

					Between host and amplifier	Between power supply and amplifier	Between ampli	fier and motor		
Mot	or series	Rated speed	Brake	Brake Rated output	(1) Connector for sequence		Connector for	encoder wiring	Connector for motor power supply wiring	
					input/output wiring	power supply wiring	(3) Amplifier side	(4) Motor side	(5) Amplifier side	(6) Motor side
inertia	GYS motor	3000 r/min	Not provided	0.05 to 0.75 kW				WSK-P09P-D		WSK-M04P
Low i			Provided	0.05 to 0.75 kW		WSK-S03P-B		W5K-P09P-D	WSK-M03P-B	WSK-M06P
	GYG	2000 r/min	Not	0.5 to 1 kW					WSK-M04P-CA	
	motor		provided	1.5 to 2 kW		*Terminal block wiring			*Terminal block wiring	TTOIC-MOTE TOA
			Provided 0.5 to 1 kW		WSK-S03P-B			WSK-M03P-B	WSK-M06P-CA	
				1.5 to 2 kW	WSK-D26P	*Terminal block wiring	WSK-D20P		*Terminal block wiring	WSK-WOOF-CA
rtia	GYG	1500 r/min	Not	0.5 to 0.85 kW	WSK-D26F	WSK-S03P-B		WSK-P06P-C	WSK-M03P-B	WSK-M04P-CA
ine	motor		provided	1.3 kW		*Terminal block wiring				WOR-WOHF-CA
e e				1.8 kW			*Terminal block wiring	WSK-M09P-CC		
Middle				2.9 kW					WSK-WU9F-CC	WOIX-W031 -00
_			Provided	0.5 to 0.85 kW		WSK-S03P-B			WSK-M03P-B	WSK-M06P-CA
				1.3 kW						Work moor - O/K
				1.8 kW		*Terminal block wiring			*Terminal block wiring	WSK-M09P-CC
				2.9 kW						WOIX-W031 -00

Common options

Name		Туре	Description	Remarks
(7) Connector for control power supply wiring		WSK-L02P-D	_	(*4)
(8) Connector for external reger	nerative resistor	WSK-R03P-B	-	_
For personal computer loader	(9) Conversion adapter	NW0H-CNV	RS-232C-RS-485 conversion	A converter and a cable
connection	(10) Cable	WSC-PCL	2 m	are required.

^{*4:} The 1.3 kW, 1.5 kW, 1.8 kW, 2 kW, and 2.9 kW amplifier do not require this connector because they are connected with a terminal block.

Peripheral devices

Rated speed	Input power	Servo amplifier	Applicable motor output		I		Surge	П	Ш	IV			
nateu speeu	supply	type	[kW]	Circuit breaker	Earth leakage circuit breaker	Magnetic contactor	absorber	AC reactor	Power filter	External regenerative resistor (*1)			
	Single-phase	RYC500D3-VVT2	0.05	E40040/0	EG32AC/3		[For control relay]	ACR2-0.4A					
	200 to 230 V	RYC101D3-VVT2	0.1	EA32AC/3	EG32AC/3	00.00		S1-B-0	I-B-0	RNFTC06-20	WSR-401		
		RYC201D3-VVT2	0.2	EA32AC/5	EG32AC/5	SC-03	Specification: 200 Ω(1/2W)	ACR2-0.75A	1	W3N-401			
		RYC401D3-VVT2	0.4	EA32AC/10	EG32AC/10		+0.1 µF	ACR2-1.5A	RNFTC10-20	1			
		RYC751D3-VVT2	0.75	EA32AC/15	EG32AC/15	SC-0	(Okaya Electric	ACR2-2.2A	RNFTC20-20	WSR-152			
	3-phase 200 to 230 V	RYC751D3-VVT2	0.75	EA33AC/10	EG33AC/10	SC-03	Industries)	ACR2-1.5A	RNFTC10-20	Won-102			
2000 r/min	Single-phase	RYC501C3-VVT2	0.5	EA32AC/10	EG32AC/10	SC-03	1	ACR2-1.5A	RNFTC10-20				
	200 to 230 V	RYC751C3-VVT2	0.75	EA32AC/15	EG32AC/15	SC-0	[For electromagnetic	ACR2-2.2A	RNFTC20-20	1			
	3-phase	RYC501C3-VVT2	0.5	EA00AC/40	E00040/40		contactor] ACR2-0.75A S2-A-0 ACR2-1.5A Specification:	~	~		ACR2-0.75A	R2-0.75A RNFTC06-20	WSR-152
	200 to 230 V	RYC751C3-VVT2	0.75	EA33AC/10	EG33AC/10	SC-03		ACR2-1.5A	DNETC40.00	1			
		RYC102C3-VVT2	1.0	EA33AC/15	EG33AC/15			ACR2-2.2A	RNFTC10-20				
		RYC152C3-VVT2	1.5	EA33AC/20	EG33AC/20	SC-4-1	500 Ω(1/2W)	300 (2(1/2/1)	DNETCOO OO	DB11-2			
		RYC202C3-VVT2	2.0	EA33AC/30	EG33AC/30	50-4-1	+0.2 μF (Okaya Electric	ACR2-3.7A	RNFTC20-20	DB11-2			
1500 r/min	Single-phase 200 to 230 V	RYC501B3-VVT2	0.5	EA32AC/10	EG32AC/10	SC-03	Industries) ACR2-1.5	ACR2-1.5A	RNFTC10-20	WSR-152			
	3-phase	RYC501B3-VVT2	0.5	E40040/40	EG33AC/10	SC-03		ACR2-0.75A	RNFTC06-20 W				
200 to 230 '	200 to 230 V	RYC851B3-VVT2	0.85	EA33AC/10	EG33AC/10	SC-03		ACR2-1.5A	RNFTC10-20	1			
		RYC132B3-VVT2	1.3	EA33AC/15	EG33AC/15	SC-0	1	ACR2-2.2A	DNETOOS OS				
		RYC182B3-VVT2	1.8	EA00AC/00	EC00 A C/00	SC-4-1		1	ACR2-3.7A	RNFTC20-20	DB11-2		
		RYC292B3-VVT2	2.9	EA33AC/30	EG33AC/30	SC-N1		ACR2-5.5A	RNFTC30-20	1			

Specifications [Servomotor]

Low inertia series (GYS motor) 3000 r/min

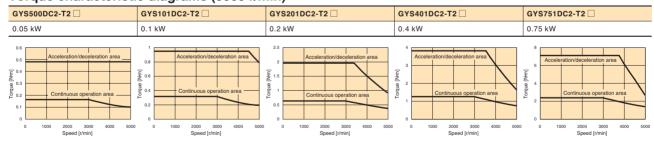
Standard specifications

Motor type	GYS500DC2 -T2 □	GYS101DC2 -T2 □	GYS201DC2 -T2 □	GYS401DC2 -T2 □	GYS751DC2 -T2 [
Rated output [kW]	0.05	0.1	0.2	0.4	0.75			
Rated torque [N·m]	0.159	0.318	0.637	1.27	2.39			
Max. torque [N·m]	0.478	0.955	1.91	3.82	7.17			
Rated speed [r/min]	3000							
Max. speed [r/min]	5000							
Moment of inertia [kg·m²]	0.0192 x 10 ⁻⁴	0.0371 x 10 ⁻⁴	0.135 x 10 ⁻⁴	0.246 x 10 ⁻⁴	0.853 x 10 ⁻⁴			
Rated current [A]	0.85	0.85	1.5	2.7	4.8			
Max. current [A]	2.55	2.55	4.5	8.1	14.4			
Winding insulation class	Class B	Class B						
Operation duty type	Continuous							
Degree of enclosure protection	Fully closed, self-cooled (IP67, excluding the shaft sealing and connectors)							
Terminals (motor)	With 0.3 m flexible leads and connectors							
Terminals (encoder)	With 0.3 m flexible leads and connectors							
Overheat protection	Not provided (The servo amplifier detects temperature.)							
Mounting method	By securing motor flange IMB5 (L51), IMV1 (L52), IMV3 (L53)							
Shaft extension	Straight shaft with a key							
Paint color	N1.5	N1.5						
Encoder	17-bit serial encoder (Incremental)							
Vibration level	V5 or below							
Installation place, altitude, Environment	For indoor use, 1000 m or below, locations without corrosive or flammable gases, oil mist and dust							
Ambient temperature, humidity	-10 to +40 °C, 90 % RH or b	elow (without condensation)						
Vibration resistance [m/s ²]	49							
Mass [kg]	0.45	0.55	1.2	1.8	3.4			

Motor with a brake

Motor type		GYS500DC2 -T2□-B	GYS101DC2 -T2 □-B	GYS201DC2 -T2□-B	GYS401DC2 -T2□-B	GYS751DC2 -T2□-B	
Rated output	[kW]	0.05	0.1	0.2 0.4		0.75	
Rated torque	[N·m]	0.159	0.318	0.637	1.27	2.39	
Static friction torque	n torque [N-m] 0.34 1.27		2.45				
Moment of inertia	[kg·m²]	0.0223 x 10 ⁻⁴	0.0402 x 10 ⁻⁴	0.159 x 10 ⁻⁴	0.270 x 10 ⁻⁴	0.949 x 10 ⁻⁴	
Rated DC voltage	[V]	DC24 ± 10%					
Attraction time	[ms]	35		40		60	
Release time	[ms]	10		20		25	
Brake input	[W]	6.1 (at 20°C)		7.3 (at 20°C)		8.5 (at 20°C)	
Mass	[kg]	0.6	0.7 1.7 2.3		4.2		

Torque characteristic diagrams (3000 r/min)





Specifications [Servomotor]

Middle inertia series (GYG motor) 2000 r/min

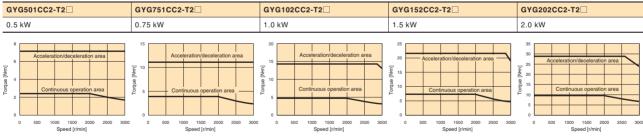
Standard specifications

Motor type	GYG501CC2 -T2 □	GYG751CC2 -T2 □	GYG102CC2 -T2 □	GYG152CC2 -T2 □	GYG202CC2 -T2 □		
Rated output [kW	0.5	0.75	1.0	1.5	2.0		
Rated torque [N·m	2.39	3.58	4.77	7.16	9.55		
Max. torque [N·m	7.2	10.7	14.3	21.5	28.6		
Rated speed [r/min	2000						
Max. speed [r/min	3000						
Moment of inertia [kg·m²	7.96 x 10 ⁻⁴	11.55 x 10 ⁻⁴	15.14 x 10 ⁻⁴	22.33 x 10 ⁻⁴	29.51 x 10 ⁻⁴		
Rated current [A	3.5	5.2	6.4	10.0	12.3		
Max. current [A	10.5	15.6	19.2	30.0	36.9		
Winding insulation class	Class F						
Operation duty type	Continuous	Continuous					
Degree of enclosure protection	Fully closed, self-cooled (IP67, excluding the shaft sealing)						
Terminals (motor)	Cannon connectors	Cannon connectors					
Terminals (encoder)	Cannon connectors						
Overheat protection	Not provided (The servo an	Not provided (The servo amplifier detects temperature.)					
Mounting method	By securing motor flange IN	By securing motor flange IMB5 (L51), IMV1 (L52), IMV3 (L53)					
Shaft extension	Straight shaft with a key, w	Straight shaft with a key, with oil seals					
Paint color	N1.5	N1.5					
Encoder	17-bit serial encoder (Incre	17-bit serial encoder (Incremental)					
Vibration level	V10 or below	V10 or below					
Installation place, altitude, Environme	For indoor use, 1000 m or below, locations without corrosive or flammable gases, oil mist and dust						
Ambient temperature, humidity	-10 to +40 °C, 90 % RH or	-10 to +40 °C, 90 % RH or below (without condensation)					
Vibration resistance [m/s ²	24.5						
Mass [kg	5.3	6.4	7.5	9.8	12.0		

Motor with a brake

Motor type		GYG501CC2 -T2⊡-B							
Rated output	[kW]	0.5	5 0.75 1.0 1.5 2.0						
Rated torque	[N·m]	2.39	3.58	7.16	9.55				
Static friction torque	[N·m]	17	i 7						
Moment of inertia	[kg·m²]	10 x 10 ⁻⁴	10 x 10 ⁻⁴ 13.6 x 10 ⁻⁴ 17.2 x 10 ⁻⁴ 24.4 x 10 ⁻⁴ 31.6 x 10 ⁻⁴						
Rated DC voltage	[V]	DC24 ± 10%							
Attraction time	[ms]	120	20						
Release time	[ms]	30	30						
Brake input	[W]	14 (at 20°C)							
Mass	[kg]	7.5	8.6	9.7	12.0	14.2			

Torque characteristic diagrams (2000 r/min)



Specifications [Servomotor]

Middle inertia series (GYG motor) 1500 r/min

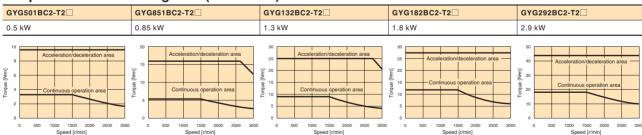
Standard specifications

Motor type	GYG501BC2 -T2 □	GYG851BC2 -T2 □	GYG132BC2 -T2 □	GYG182BC2 -T2 □	GYG292BC2 -T2 □		
Rated output [kW]	0.5	0.85	1.3	1.8	2.9		
Rated torque [N·m]	3.18	5.41	8.28	11.5	18.5		
Max. torque [N·m]	9.50	16.2	24.8	27.6	44.6		
Rated speed [r/min]	1500						
Max. speed [r/min]	3000						
Moment of inertia [kg·m²]	11.55 x 10 ⁻⁴	15.15 x 10 ⁻⁴	22.33 x 10 ⁻⁴	29.5 x 10 ⁻⁴	43.3 x 10 ⁻⁴		
Rated current [A]	4.7	7.3	11.5	17.8	23.6		
Max. current [A]	14.1	21.9	34.5	42.7	56.6		
Winding insulation class	Class F						
Operation duty type	Continuous						
Degree of enclosure protection	Fully closed, self-cooled (IP67, excluding the shaft sealing) Fully closed, self-cooled (IP65, excluding the				5, excluding the shaft sealing)		
Terminals (motor)	Cannon connectors						
Terminals (encoder) Cannon connectors							
Overheat protection	Not provided (The servo amplifier detects temperature.)						
Mounting method	By securing motor flange IN	IB5 (L51), IMV1 (L52), IMV3 (L53)				
Shaft extension	Straight shaft with a key, with oil seals Straight shaft with a key, with tap, with oil seals						
Paint color	N1.5						
Encoder	17-bit serial encoder (Increr	17-bit serial encoder (Incremental)					
Vibration level	V10 or below V15 or below						
Installation place, altitude, Environment For indoor use, 1000 m or below, locations without corrosive or flammable				ist and dust			
Ambient temperature, humidity	-10 to +40 °C, 90 % RH or I	pelow (without condensation)		0 to +40 °C, 90 % RH or be	low (without condensation)		
Vibration resistance [m/s ²]	24.5			19.6			
Mass [kg]	6.4	7.5	9.8	16.5	20.5		

Motor with a brake

Motor type		GYG501BC2 -T2⊡-B				GYG292BC2 -T2 □-B		
Rated output	[kW]	0.5	0.5 0.85 1.3			2.9		
Rated torque	[N·m]	3.18	5.41	11.5	18.6			
Static friction torque	[N·m]	17			32			
Moment of inertia	[kg·m²]	13.6 x 10 ⁻⁴	3.6 x 10 ⁻⁴ 17.3 x 10 ⁻⁴ 24.5 x 10 ⁻⁴			56.0 x 10 ⁻⁴		
Rated DC voltage	[V]	DC24 ± 10%						
Attraction time	[ms]	120			170			
Release time	[ms]	30	30			50		
Brake input	[W]	14 (at 20°C)	14 (at 20°C)			34.7 (at 20°C)		
Mass	[kg]	8.6	9.7	12.0	23.5	27.5		

Torque characteristic diagrams (1500 r/min)



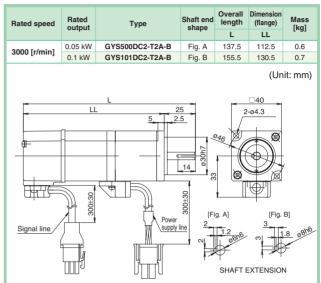
External Dimensions [Servomotor]

Low inertia series (GYS motor) 3000 r/min

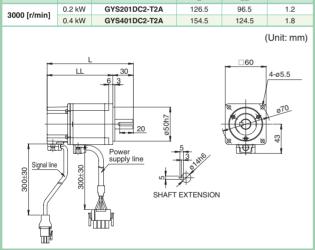
■ Standard type

Rated speed	Rated output	Туре	Shaft end shape	Overall length	Dimension (flange)	Mass [kg]
				L	LL	. 31
3000 [r/min]	0.05 kW	GYS500DC2-T2A	Fig. A	103	78	0.45
3000 [1/11111]	0.1 kW	GYS101DC2-T2A	Fig. B	121	96	0.55
OETHOOS Signal	Line	25 5 2.5 5 2.5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Z408 0	2 666	2-ø4.3	6
		La n MM n	SH	AFT EXTE	ENSION	

■ Motor	with a	brake
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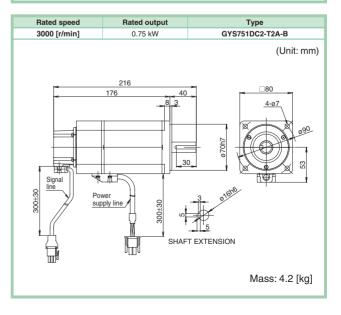


Rated speed	Rated output	Туре	Overall length	Dimension (flange)	Mass [kg]
			L	LL	. 31
2000 [r/min]	0.2 kW	GYS201DC2-T2A	126.5	96.5	1.2
3000 [r/min]	0.4 kW	GYS401DC2-T2A	154.5	124.5	1.8



1 1 1 1 1 1 1 1 1 1
3000 [r/min] 0.4 kW GYS401DC2-T2A-B 192.5 162.5 2.3 (Unit: mm)
(Unit: mm)
10 Signal line
Power supply line SHAFT EXTENSION

Rated speed	Rated output	Туре
3000 [r/min]	0.75 kW	GYS751DC2-T2A
Signal Ine Supply line	180	(Unit: mm)
		Mass: 3.4 [kg]



External Dimensions [Servomotor]

Middle inertia series (GYG motor) 2000 r/min

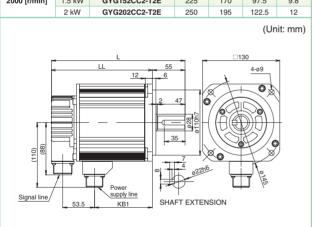
■ Standard type

ı	Rated speed	Rated output	Туре		length	(flange)	Terminal	Mass
ı		output			L	LL	KB1	[kg]
I	2000 [r/min]	0.5 kW	GYG501CC2-	-T2E	175	120	47.5	5.3
L	2000 [[/]]]	0.75 kW	GYG751CC2-	-T2E	187.5	132.5	60	6.4
	(a) Signal line		Power supply line	35			4-09	it: mm)
		53.5	KB1	J. // II I	_,LI401	···		

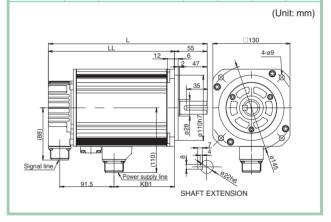
■ Motor with a brake

Rated speed	Rated output	Туре	Overall length	Dimension (flange)	Terminal KB1	Mass [kg]
	0.5 kW	GYG501CC2-T2E-B	217.5	LL 162.5		7.5
2000 [r/min]	0.5 kW	GYG501CC2-12E-B GYG751CC2-T2E-B	217.5	175	52 64.5	7.5 8.6
(110)			928 0110h7		4-69	it: mm)
Signal line	91.5	Power supply line SH.	AFT EXTE	L	la la	

Rated speed	Rated output	Туре	Overall length	Dimension (flange)	Terminal	Mass [kg]
			L	LL	KB1	191
2000 [r/min]	1 kW	GYG102CC2-T2E	200	145	72.5	7.5
	1.5 kW	GYG152CC2-T2E	225	170	97.5	9.8
	2 kW	GYG202CC2-T2E	250	195	122.5	12



Rated speed	Rated output	Туре	Overall length	Dimension (flange)	Terminal	Mass [kg]
			L	LL	KB1	191
2000 [r/min]	1 kW	GYG102CC2-T2E-B	242.5	187.5	77	9.7
	1.5 kW	GYG152CC2-T2E-B	267.5	212.5	102	12
	2 kW	GYG202CC2-T2E-B	292.5	237.5	127	14.2

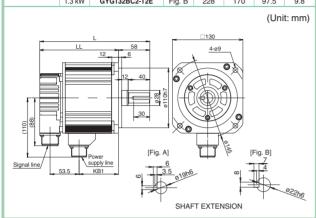


External Dimensions [Servomotor]

Middle inertia series (GYG motor) 1500 r/min

■ Standard type

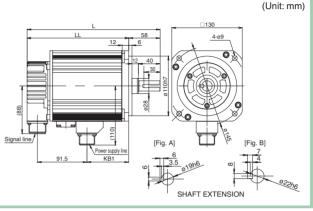
Rated speed	Rated output	Туре	Shaft end shape	length	(flange)	Terminal	Mass [kg]					
	output		Shape	L	LL	KB1	[49]					
	0.5 kW	GYG501BC2-T2E	Fig. A	190.5	132.5	60	6.4					
1500 [r/min]	0.85 kW	GYG851BC2-T2E	Fig. A	203	145	72.5	7.5					
	1.3 kW	GYG132BC2-T2E	Fig. B	228	170	97.5	9.8					
						(Uni	t: mm)					
LL 58 4-09 4-09 8												



Rated speed	Rated output	Туре	length	(flange)	Terminal	Mass [kg]
	output		L	LL	KB1	เพยา
1500 [r/min]	1.8 kW	GYG182BC2-T2G	270	191	85	16.5
1300 [1/11111]	2.9 kW	GYG292BC2-T2G	294	215	109	20.5
Signal line Fower supply line 86.5	L	60		Oil seal	-	:: mm)

■ Motor with a brake

Rated speed	Rated			Overall length	Dimension (flange)	Terminal	Mass [kg]
	Juiput		shape	L	LL	KB1	[9]
	0.5 kW	GYG501BC2-T2E-B	Fig. A	233	175	64.5	8.6
1500 [r/min]	0.85 kW	GYG851BC2-T2E-B	Fig. A	245.5	187.5	77	9.7
	1.3 kW	GYG132BC2-T2E-B	Fig. B	270.5	212.5	102	12
						(Uni	t: mm)
<u>-</u>		L .	,	□130			



Rated speed	Rated	Туре	Overall length	Dimension (flange)	Terminal	Mass [kg]
			L	LL	KB1	191
1500 [r/min]	1.8 kW	GYG182BC2-T2G-B	319	240	107	23.5
1300 [1/11111]	2.9 kW	GYG292BC2-T2G-B	343	264	131	27.5
Signal Inne Power supply in	_	79 79 60 60 60 60 60 60 60 60 60 60 60 60 60	₩ W ⊕		(Unit	:: mm)

Specifications [Servo Amplifier]

Basic specifications

Ann	lioob	le motor rate	d anaad	2000 [*/	ninl				2000 [*/*	minl				1500 [*/*	minl							
				3000 [r/n		0.0144	0.4130/	0.75 1.00	2000 [r/r		4 1-10/1	4 5 134/	0.1444	1500 [r/r		4.0.134/	4.0.134/	0.01444				
App	iicab	le motor outp		0.05 kW		0.2 kW	0.4 kW	0.75 kW	0.5 kW	0.75 kW	1 KVV	1.5 kW	2 kW	0.5 kW	0.85 kW	1.3 KW	1.8 kW	2.9 kW				
Тур	е		D3-VVT2	500	101	201	401	751	504	754	100	450	000									
			C3-VVT2						501	751	102	152	202	504	054	100	100	000				
04	6		B3-VVT2	Frame 1				F	F===== 0			F===== 0		501 Frame 2	851	132	182	292				
Mas	_	me number	[kg]	1.0				1.5	Frame 2			Frame 3)	1.5		Frame 3 2.5	Frame 3A	١				
ivias	Main power Phase				le phace Single phace 3 phace Single-phase 3 phace Single-phase 3 phace																	
<u>></u>	sup		Voltage	<u> </u>		E to . 100/	/ 10 to	-10% at Si			3-pnase			3-phase	3-pnase							
훀	•	. ,	frequency	50/60 Hz		15 10 + 10 /	5 (-10 10 4	-10 /o at 31	rigie-prias	<i>(</i>												
<u>v</u>	Cor	ntrol power	Phase																			
Power supply	sup		Voltage		Single-phase AC200 to 230 V -15 to +10%																	
frequency 50/60 Hz																						
Con	trol s	system				idal PWM	drive															
_	dbac			_		ler (increm																
		uence input				` _		er-travel.	4) emerae	ency ston.	(5) P-acti	on. (6) fre	e run com	mand, (7)	anti-reson	ant freque	encv selec	tion 1.				
		NT1 to 5)													neat, (11) a		•	,				
	(equence in		-		-			, (,							
	Seq	uence output	t										alarm det	ection b-c	ontact, (5)	dynamic	braking co	ontrol,				
		T1 to 4)													detection,		-					
	•	,					-	quence o					, ,			` ′	Ü					
	Enc	oder signal	Dividing setting	Pulse ou	tput settir	ng 16 to 32	768 pulse	s/rev														
	divi	ding output	Signal form	(1) Line	driver out	out A-phas	e, B-phas	e, and Z-p	hase, (2)	open colle	ector outp	ut Z-phas	е									
<u></u>	Mor	nitor output		Analog v	oltage out	out for sign	al measur	ement (alte	rnating, p	ulsating) ×	2											
Jua				(1) Speed command, (2) speed return, (3) torque command, (4) positional deviation, (5) positional deviation expansion, (6) pulse command frequency																		
Si.				These functions can be assigned to monitor outputs MON1 and MON2 and used, and the output voltage scale and offset can be set by setting parameters.																		
ρ	_		d pulse frequency		Pulse frequency (max.) command input 1 MHz (differential), 200 kHz (open collector), dividing output 500 kHz (differential)																	
no/	contro	Input pulse		Compatible with two systems: (1) RS-422 line driver signals and (2) open collector signals																		
pt	Ö	Input pulse	••	Selectable from (1) command pulse/command sign, (2) forward operation/reverse operation pulse, and (3) two 90° phase-different command pulse correction α (1 to 32767) Four types of command pulse correction α can be compared to the command pulse correction α can be compared to the command pulse correction α can be compared to the command pulse correction α can be compared to the command pulse correction α can be compared to the command pulse correction α can be compared to the command pulse correction α (1 to 32767).										ıls								
Functions, input/output signals	Position	Command p	oulse	Position	pulse = c	ommand p	IIISe × —	mmand pu mmand pu														
흝	Pos	Position co	ntrol input	(1) Comi	(1) Command pulse correction α selection 1, (2) command pulse correction α selection 2, (3) deviation clear, (4) command pulse disabled																	
š				These fu	inctions c	an be assi	gned to se	equence in	puts CON	IT1 to CO	NT5 and ı	used. (*1)										
ш.	-	Speed cont		1:5000																		
	control		eleration time setting												set, S-curve a		deceleration	is possible.				
	8		d command input				-			the voltag	e-speed s	cale and	offset can	be set by	setting par	ameters.						
	Speed	Internal spe						ernal para				(4)		(5)	. 1	1						
	Sp	Speed cont	rol input										se operatio	n, (5) acc	eleration/d	eceleratio	n time sel	ection				
	e =	Futomol tomo	e command input					equence in				. ,	-#+		setting pa							
	Torque control	Torque con	<u> </u>												d used. (*1							
		enerative bra		` '				ate circuit,							u useu. (1	,						
		litional functi		-		-		sing contr														
Prof	ectio														transistor ove	erheat (rH2)						
														-			amplifier ov	erheat (AH)				
encoder communication error (EC), CONT duplication (Cnt), overload (OL), insufficient encoder communication error (EC), CONT duplication (Cnt), overload (OL), insufficient for indoor use at max. altitude of 1,000 m or below. The installation place shall be free from dus																						
it in		perature/hun						ondensatio			, , gu	, 2. 2. 000 00	5 10 11/00				,ronago					
Working conditions		ration/shock				9.6 m/s ² {2			,													
	ndard							CE Mark (I	ow voltag	e directive	EN50178	3)										

^{*1:} Functions you want to keep ON at all times can be used without wiring (up to four functions can be set by setting parameters as normally ON signals).

Interface specifications

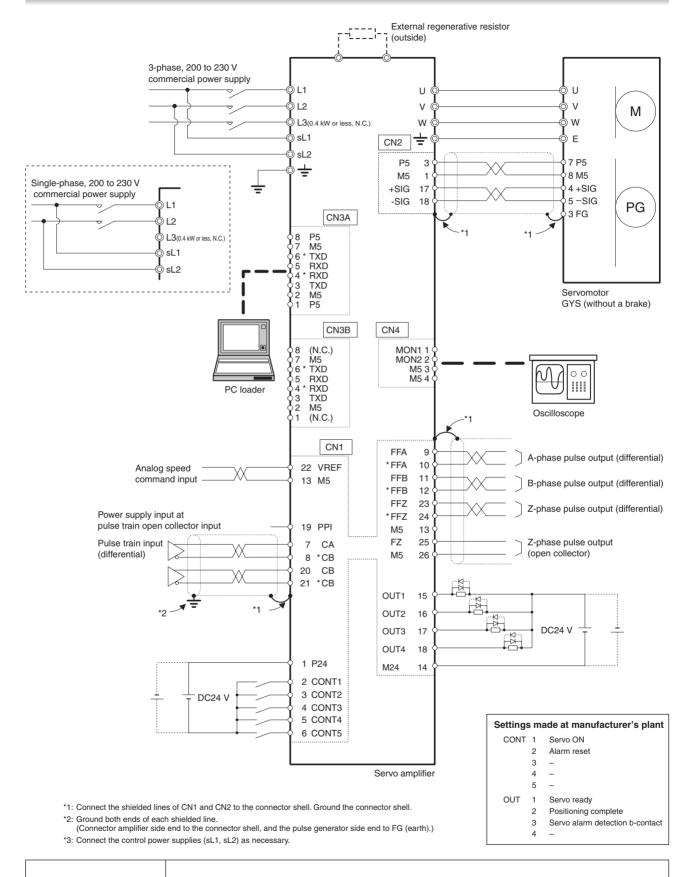
I/O signal specifications

Terminal name	Code	Specification
Pulse train input	CA, *CA	Pulse train form Selectable from (1) command pulse/command code, (2) forward operation pulse/reverse operation pulse,
	CB, *CB	and (3) two 90° phase-different signals.
	PPI	Drive power supply input during open collector input (+24 V DC)
Frequency dividing output	FFA, *FFA	Differential output, two 90° phase-different signal output
	FFB, *FFB	Set output pulses: 16 to 32768 pulse/rev
	FFZ, *FFZ	Differential output 1 pulse/rev
	FZ, M5	Open collector output 1 pulse/rev
Analog input	VREF	Speed control and torque control analog command input $\pm 10 \text{ V}$ (input impedance: $20 \text{ k}\Omega$)
Power input for sequence signals	P24	+24 V DC for sequence signals is input from outside.
	M24	300 mA power is required as an external power supply.
Sequence input signal	CONT1 to CONT5	Each terminal is ON when connected to M24, and OFF when disconnected. +24 V DC/10 mA (per point).
		The terminals can be assigned to each function by setting parameters. Compatible with sink/source input method.
Sequence output signal	OUT1 to OUT4	ON while connected to the M24 terminal. 30 V DC/50 mA (max.). The terminals can be assigned to each
		function by setting parameters. Compatible with sink/source output method.
Monitor output 1, monitor output 2	MON1, MON2	Analog voltage output for signal measurement (alternating, pulsating)
		Selectable from (1) speed command, (2) speed return, (3) torque command, (4) positional deviation,
		(5) positional deviation expansion, and (6) pulse command frequency.

Communication specifications

Item	Specification								
Interface	Two RS-485 ports								
Synchronization system	Start-stop synchronization Non-procedure								
Transmission system	Four-wire half duplex communication								
Baud rate	9600, 19200, 38400 bps								
Max. number of axes	31 axes								

Connection Diagram (Reference)

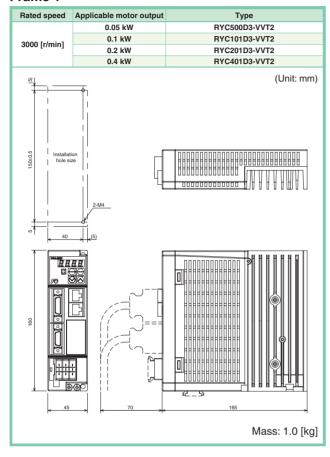




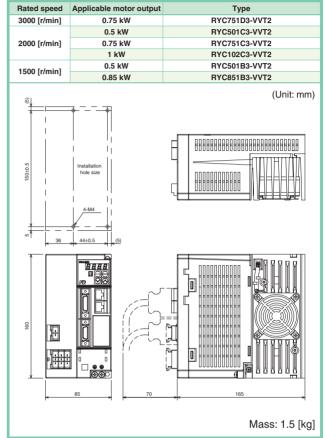
The diagram shown above is given as a reference for model selection. When actually using the selected servo system, make wiring connections according to the connection diagram and instructions described in the user's manual.

External Dimensions [Servo Amplifier]

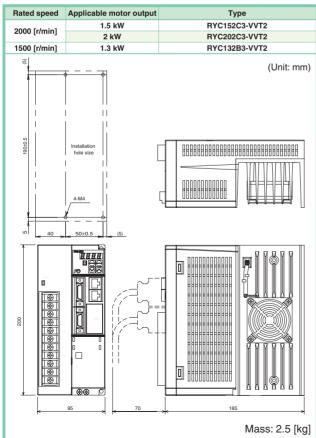
Frame 1



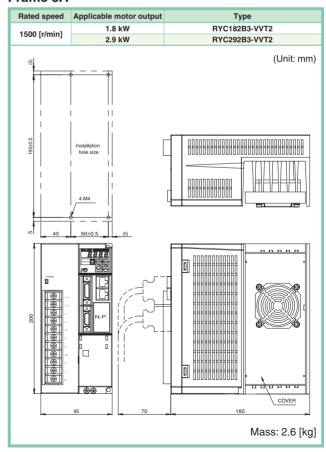
Frame 2



Frame 3



Frame 3A



Model Code List

Servomotor

Specification										
Rated speed	Encoder	Winding insulation class (*1)	Oil seal/shaft	Brake	Rated output	Туре				
3000 r/min	17-bit INC	IP67	Without an oil seal,	Without a brake	0.05 kW	GYS500DC2-T2A				
			with a key (*2)		0.1 kW	GYS101DC2-T2A				
					0.2 kW	GYS201DC2-T2A				
					0.4 kW	GYS401DC2-T2A				
					0.75 kW	GYS751DC2-T2A				
				With a brake	0.05 kW	GYS500DC2-T2A-B				
					0.1 kW	GYS101DC2-T2A-B				
					0.2 kW	GYS201DC2-T2A-B				
					0.4 kW	GYS401DC2-T2A-B				
					0.75 kW	GYS751DC2-T2A-B				
			Without an oil seal,	Without a brake	0.05 kW	GYS500DC2-T2B				
			and a key (*2)		0.1 kW	GYS101DC2-T2B				
					0.2 kW	GYS201DC2-T2B				
					0.4 kW	GYS401DC2-T2B				
					0.75 kW	GYS751DC2-T2B				
				With a brake	0.05 kW	GYS500DC2-T2B-B				
					0.1 kW	GYS101DC2-T2B-B				
					0.2 kW	GYS201DC2-T2B-B				
					0.4 kW	GYS401DC2-T2B-B				
					0.75 kW	GYS751DC2-T2B-B				
2000 r/min	17-bit INC	IP67	With an oil seal	Without a brake	0.5 kW	GYG501CC2-T2E				
			and a key (*3)		0.75 kW	GYG751CC2-T2E				
					1 kW	GYG102CC2-T2E				
					1.5 kW	GYG152CC2-T2E				
					2 kW	GYG202CC2-T2E				
				With a brake	0.5 kW	GYG501CC2-T2E-B				
					0.75 kW	GYG751CC2-T2E-B				
					1 kW	GYG102CC2-T2E-B				
					1.5 kW	GYG152CC2-T2E-B				
					2 kW	GYG202CC2-T2E-B				
1500 r/min	17-bit INC	IP67	With an oil seal	Without a brake	0.5 kW	GYG501BC2-T2E				
			and a key (*3)		0.85 kW	GYG851BC2-T2E				
					1.3 kW	GYG132BC2-T2E				
		IP65			1.8 kW	GYG182BC2-T2G				
					2.9 kW	GYG292BC2-T2G				
		IP67	1	With a brake	0.5 kW	GYG501BC2-T2E-B				
					0.85 kW	GYG851BC2-T2E-B				
					1.3 kW	GYG132BC2-T2E-B				
		IP65	1		1.8 kW	GYG182BC2-T2G-B				
					2.9 kW	GYG292BC2-T2G-B				

^{*1:} Excluding the shaft sealing and connectors of the GYS motor, and the shaft sealing of the GYG motor.

Servo amplifier

Specification			Туре
Input power supply	Applicable motor	Applicable motor output	Туре
	Low inertia series (GYS motor)	For 0.05 kW	RYC500D3-VVT2
Circle above 200 to 200 V	3000 r/min	For 0.1 kW	RYC101D3-VVT2
Single-phase 200 to 230 V		For 0.2 kW	RYC201D3-VVT2
		For 0.4 kW	RYC401D3-VVT2
		For 0.75 kW	RYC751D3-VVT2
Single-phase or 3-phase 200 to 230 V	Middle inertia series (GYG motor)	For 0.5 kW	RYC501C3-VVT2
	2000 r/min	For 0.75 kW	RYC751C3-VVT2
		For 1 kW	RYC102C3-VVT2
3-phase 200 to 230 V		For 1.5 kW	RYC152C3-VVT2
		For 2 kW	RYC202C3-VVT2
Single-phase or 3-phase 200 to 230 V	Middle inertia series (GYG motor)	For 0.5 kW	RYC501B3-VVT2
	1500 r/min	For 0.85 kW	RYC851B3-VVT2
0 =h 000 t- 000 V		For 1.3 kW	RYC132B3-VVT2
3-phase 200 to 230 V		For 1.8 kW	RYC182B3-VVT2
		For 2.9 kW	RYC292B3-VVT2

^{*2:} Servomotors with an oil seal are made to order.

^{*3:} Servomotors without an oil seal and key are made to order.

Model Code List

Options

Cables with connectors

Name	Specification	Specification			le mo	del (*	Туре			
					(C)	(D)	(E)	(F)	(G)	
Cable for sequence input/output (for connection between host controller and amplifier)	3 m	Single-connector	•	•	•	•	•	•	•	WSC-D26P03
Power cable for power supply wiring (for connection between power supply and amplifier)	3 m	Single-connector	•	•	•	•				WSC-S03P03-B
Cable for encoder	5 m	Double-connector	•	•						WSC-P06P05-D
(for connection between amplifier and motor)	10 m								1	WSC-P06P10-D
	20 m								1	WSC-P06P20-D
	5 m	Double-connector			•	•	•	•	•	WSC-P06P05-CD
	10 m								1	WSC-P06P10-CD
	20 m								1	WSC-P06P20-CD
Power cable for motor	5 m	Double-connector	•							WSC-M04P05-B
(for connection between amplifier and motor)	10 m								1	WSC-M04P10-B
	20 m								1	WSC-M04P20-B
	5 m	Double-connector		•						WSC-M06P05-B
	10 m	1								WSC-M06P10-B
	20 m									WSC-M06P20-B
	5 m	Single-connector			•	•				WSC-M04P05-WD
	10 m	1		ı	(*2)	(*3)				WSC-M04P10-WD
	20 m	1								WSC-M04P20-WD

Connectors *When the customer makes a cable, use any of the connectors shown in this table.

Name		Specification	App	licab	le mo	del ('	1)		Туре	
			(A)	(B)	(C)	(D)	(E)	(F)	(G)	
Connector for sequence input/o	utput wiring	Half pitch connector, soldered type, 26-pin \times 1 set	•	•	•	•	•	•	•	WSK-D26P
Connector for power supply wir	ing	Dynamic connector , X key, 3-pin × 1 set	•		•	•				WSK-S03P-B
Connector for encoder wiring	Amplifier side	Half pitch connector, soldered type, 20-pin \times 1 set	•	•	•	•	•	•	•	WSK-D20P
Motor side N		MATE-N-LOCK connector, 9-pin × 1 set	•	•						WSK-P09P-D
		Cannon plug (angle), 6-pin × 1 set			•	•	•	•		WSK-P06P-C
Connector for	Amplifier side	Dynamic connector, Y key, 3-pin × 1 set	•	•	•	•				WSK-M03P-B
motor power supply wiring	Motor side	MATE-N-LOCK connector, 4-pin × 1 set	•							WSK-M04P
		MATE-N-LOCK connector, 6-pin × 1 set								WSK-M06P
		Cannon plug (angle), 4-pin × 1 set			•		•			WSK-M04P-CA
		Cannon plug (angle), 6-pin × 1 set				•		•		WSK-M06P-CA
		Cannon plug (angle), 9-pin × 1 set							•	WSK-M09P-CC

^{*1:} For applicable models, see Table 1: Applicable models below.

Common options

		0 10 11		Туре				
Name		Specification	Specification					
Connector for control power sup	pply wiring	Dynamic connector, X key, 2-pin × 1 set		WSK-L02P-D				
For personal computer loader	Conversion adapter	RS-232C-RS-485 conversion	Both a converter and a cable	NW0H-CNV				
connection	Cable	Both-end RJ45 connector, straight connection, 2 m	are required.	WSC-PCL				
External regenerative resistor		0.4 kW or less	Connector for external regenerative	WSR-401				
		0.5 kW to 1 kW	resistor: Use it with WSK-R03P-B.	WSR-152				
		1.3 kW to 2.9 kW	-	DB11-2				
Connector for external regenera	tive resistor	Common to applicable models A to D (*1), dynamic (with insertion error preventive key) × 1 set	WSK-R03P-B					

^{*1:} For applicable models, see Table 1: Applicable models below.

Motor specification			Motor type	Applicable	Applicable model
Rated speed	Brake	Rated output	1 Wotor type	amplifier type	group
3000 r/min	Without a brake	0.05 kW	GYS500DC2-T2A	RYC500D3-VVT2	(A)
		0.1 kW	GYS101DC2-T2A	RYC101D3-VVT2	
		0.2 kW	GYS201DC2-T2A	RYC201D3-VVT2	
		0.4 kW	GYS401DC2-T2A	RYC401D3-VVT2	
		0.75 kW	GYS751DC2-T2A	RYC751D3-VVT2	
	With a brake	0.05 kW	GYS500DC2-T2A-B	RYC500D3-VVT2	(B)
		0.1 kW	GYS101DC2-T2A-B	RYC101D3-VVT2	
		0.2 kW	GYS201DC2-T2A-B	RYC201D3-VVT2	
		0.4 kW	GYS401DC2-T2A-B	RYC401D3-VVT2	
		0.75 kW	GYS751DC2-T2A-B	RYC751D3-VVT2	
2000 r/min	Without a brake	0.5 kW	GYG501CC2-T2E	RYC501C3-VVT2	(C)
		0.75 kW	GYG751CC2-T2E	RYC751C3-VVT2	
		1 kW	GYG102CC2-T2E	RYC102C3-VVT2	
		1.5 kW	GYG152CC2-T2E	RYC152C3-VVT2	(E)
		2 kW	GYG202CC2-T2E	RYC202C3-VVT2	

Motor specification			Motor type	Applicable	Applicable model
Rated speed	Brake	Rated output	wotor type	amplifier type	group
2000 r/min	With a brake	0.5 kW	GYG501CC2-T2E-B	RYC501C3-VVT2	(D)
		0.75 kW	GYG751CC2-T2E-B	RYC751C3-VVT2	
		1 kW	GYG102CC2-T2E-B	RYC102C3-VVT2	
		1.5 kW	GYG152CC2-T2E-B	RYC152C3-VVT2	(F)
		2 kW	GYG202CC2-T2E-B	RYC202C3-VVT2	
1500 r/min	Without a brake	0.5 kW	GYG501BC2-T2E	RYC501B3-VVT2	(C)
		0.85 kW	GYG851BC2-T2E	RYC851B3-VVT2	
		1.3 kW	GYG132BC2-T2E	RYC132B3-VVT2	(E)
		1.8 kW	GYG182BC2-T2G	RYC182B3-VVT2	(G)
		2.9 kW	GYG292BC2-T2G	RYC292B3-VVT2	
	With a brake	0.5 kW	GYG501BC2-T2E-B	RYC501B3-VVT2	(D)
		0.85 kW	GYG851BC2-T2E-B	RYC851B3-VVT2	
		1.3 kW	GYG132BC2-T2E-B	RYC132B3-VVT2	(F)
		1.8 kW	GYG182BC2-T2G-B	RYC182B3-VVT2	(G)
		2.9 kW	GYG292BC2-T2G-B	RYC292B3-VVT2	

^{*1:} For applicable models, see Table 1: Applicable models below.
*2: Use the cable together with the connector for motor power supply wiring WSK-M04P-CA.
*3: Use the cable together with the connector for motor power supply wiring WSK-M06P-CA. (The customer is requested to make a cable for brakes.)



Product Warranty

Please take the following items into consideration when placing your order.

When requesting an estimate and placing your orders for the products included in these materials, please be aware that any items such as specifications which are not specifically mentioned in the contract, catalog, specifications or other materials will be as mentioned below.

In addition, the products included in these materials are limited in the use they are put to and the place where they can be used, etc., and may require periodic inspection. Please confirm these points with your sales representative or directly with this company.

Furthermore, regarding purchased products and delivered products, we request that you take adequate consideration of the necessity of rapid receiving

inspections and of product management and maintenance even before receiving your products.

1. Warranty Period and Warranty Range

1-1 Warranty period

- (1) The product warranty period is "1 year from the date of purchase" or 24 months from the manufacturing date imprinted on the name place, whichever date is earlier.
- (2) However, in cases where the use environment, conditions of use, use frequency and times used, etc., have an effect on product life, this warranty period may not apply.
- (3) Furthermore, the warranty period for parts restored by Fuji Electric's Service Department is "6 months from the date that repairs are completed."

1-2 Warranty range

- (1) In the event that breakdown occurs during the product's warranty period which is the responsibility of Fuji Electric, Fuji Electric will replace or repair the part of the product that has broken down free of charge at the place where the product was purchased or where it was delivered. However, if the following cases are applicable, the terms of this warranty may not apply.
 - 1) The breakdown was caused by inappropriate conditions, environment, handling or use methods, etc. which are not specified in the catalog, operation manual, specifications or other relevant documents.
 - 2) The breakdown was caused by the product other than the purchased or delivered Fuji's product.
 - 3) The breakdown was caused by the product other than Fuji's product, such as the customer's equipment or software design, etc.
 - 4) Concerning the Fuji's programmable products, the breakdown was caused by a program other than a program supplied by this company, or the results from using such a program.
 - 5) The breakdown was caused by modifications or repairs affected by a party other than Fuji Electric.
 - 6) The breakdown was caused by improper maintenance or replacement using consumables, etc. specified in the operation manual or catalog, etc.
 - 7) The breakdown was caused by a chemical or technical problem that was not foreseen when making practical application of the product at the time it was purchased or delivered.
 - 8) The product was not used in the manner the product was originally intended to be used.
 - 9) The breakdown was caused by a reason which is not this company's responsibility, such as lightning or other disaster.
- (2) Furthermore, the warranty specified herein shall be limited to the purchased or delivered product alone.
- (3) The upper limit for the warranty range shall be as specified in item (1) above and any damages (damage to or loss of machinery or equipment, or lost profits from the same, etc.) consequent to or resulting from breakdown of the purchased or delivered product shall be excluded from coverage by this warranty.

1-3. Trouble diagnosis

As a rule, the customer is requested to carry out a preliminary trouble diagnosis. However, at the customer's request, this company or its service network can perform the trouble diagnosis on a chargeable basis. In this case, the customer is asked to assume the burden for charges levied in accordance with this company's fee schedule.

2. Exclusion of Liability for Loss of Opportunity, etc.

Regardless of whether a breakdown occurs during or after the free of charge warranty period, this company shall not be liable for any loss of opportunity, loss of profits, or damages arising from special circumstances, secondary damages, accident compensation to another company, or damages to products other than this company's products, whether foreseen or not by this company, which this company is not be responsible for causing.

3. Repair Period after Production Stop, Spare Parts Supply Period (Holding Period)

Concerning models (products) which have gone out of production, this company will perform repairs for a period of 7 years after production stop, counting from the month and year when the production stop occurs. In addition, we will continue to supply the spare parts required for repairs for a period of 7 years, counting from the month and year when the production stop occurs. However, if it is estimated that the life cycle of certain electronic and other parts is short and it will be difficult to procure or produce those parts, there may be cases where it is difficult to provide repairs or supply spare parts even within this 7-year period. For details, please confirm at our company's business office or our service office.

4. Transfer Rights

In the case of standard products which do not include settings or adjustments in an application program, the products shall be transported to and transferred to the customer and this company shall not be responsible for local adjustments or trial operation.

5. Service Contents

The cost of purchased and delivered products does not include the cost of dispatching engineers or service costs. Depending on the request, these can be discussed separately.

6. Applicable Scope of Service

Above contents shall be assumed to apply to transactions and use of the country where you purchased the products. Consult the local supplier or Fuji for the detail separately



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МЕМО



- 1 This catalog is intended for use in selecting required servo systems. Before actually using these products, carefully read their instruction manuals and understand their correct usage.
- 2. Products described in this catalog are neither designed nor manufactured for combined use with a system or equipment that will affect human lives.
 - If you are considering using these products for special purposes, such as atomic energy control, aerospace, medical application, or traffic control, please consult our sales office.
- 3. If you use our product with equipment that is expected to cause serious injury or damage to your property in case of failure, be sure to take appropriate safety measures for the equipment.

The Inverter Value Engineering Center (Suzuka Area) has acquired environment management system ISO14001 and quality management system ISO9001 certifications.











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